

Appl. No. 10/549,528

Response dated October 19, 2009

Reply to Advisory Action dated July 21, 2009

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**LISTING OF CLAIMS:**

1. (Previously presented) A method of forming a peptide conjugate comprising a covalent linkage between a modifying group and a glycosylated or non-glycosylated peptide, wherein said modifying group is conjugated to the peptide via a glycosyl linking group interposed between and covalently linked to both said peptide and said modifying group, said method comprising:
  - 5 a. contacting a cell with a modified sugar comprising a sialic acid moiety
  - 6 covalently functionalized with at least one modifying group, wherein said at least one modifying
  - 7 group is a water-soluble polymer;
  - 8 b. incubating said cell under conditions in which said cell internalizes said
  - 9 modified sugar;
  - 10 c. after step b, intracellularly contacting said modified sugar with a glycosylated
  - 11 or non-glycosylated peptide and a glycosyltransferase for which said modified sugar is a
  - 12 substrate, thereby forming said peptide conjugate.
1. 2. (Original) The method of claim 1, further comprising, after step b and before step c, intracellularly contacting said modified sugar with a nucleotide and a nucleotidyl transferase, thereby forming a modified nucleotide sugar, wherein  
4 said modified sugar in step c is said modified nucleotide sugar.
1. 3. (Original) The method of claim 1, further comprising isolating said peptide conjugate.
1. 4. (Original) The method of claim 1, wherein said modified sugar is a modified nucleotide sugar.
1. 5. (Original) The method of claim 1, wherein said modified sugar is a modified activated sugar.